From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: KA3J@aol.com
Subject: [6877] 38 Special -- Extra Parts Kit
Message-ID: <961221112846_1653991358@emout20.mail.aol.com>

Now that so many orders have been placed, I'm sure some of us would appreciate being able to obtain the extra parts (i.e., connectors, controls, cabinet,.etc.) that are needed plus the parts for most of the standard modifications (power amp., RIT, etc.) from a single source. I've come up with three approaches to doing this and would appreciate your thoughts. Please e-mail me directly with your responses/thoughts on the following questions/approaches and I will summarize and share them with the group.

1. How many of your would like a standard extra parts kit? I imagine cost would roughly be in the neighborhood of $20 - $25 including a nice Ten Tec (or equivalent) cabinet.

Approaches:

A. Suggest to a couple of suppliers (e.g., Dan's Small Parts) that they provide such a parts kit. I mention Dan as an example only because I notice that he already stocks most of the parts.

B. Have a club or informal group (e.g., I know there are number of us in the DC area) volunteer to take this on.

C. Have an individual(s) volunteer to do this. I originally thought of offering to do this myself and it's still a possibility. However, it would mean that I'd have to pull my wife away from her temp. job to handle most of the labor and I would have to charge some nominal amount per kit to cover her time. Also, since I haven't done anything quite like this before I would need some guidance from the more experienced folks.

I know that part of the attraction and rationale for NorCal supplying a board and parts only kit is to allow for customization for the building contest, etc. However, I think it would be nice to have this option as well and the NorCal folks have already done more than their share of labor on this project.

So let's hear your views on this!

72,

Ron (KA3J)
Bethesda, MD

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Scott Bauer <ke3nv@erols.com>
Subject: [6859] 80 meter beacon
Message-ID: <199612210632.BAA19424@smtp1.erols.com>

 Good morning
I heard a 80 meter beacon on 3.521.5 from 0615-0624z. I could not
copy a call sign, just vvv vvv vvv and something like fd_8 jr. rst,
219, QRN. Anyone else hear it?
72, Scott

Fists 1502, ARCI 8804, G-QRP 8773, Nor-Cal 1094, NE 348, AR-QRP 27

           Scott Bauer W3CV (formerly KE3NV, N3RQU) QRP nut, SWL
   CW Operators QRP Club # 484 (Australia)   Grid FM-19, Odenton, MD

ARRL, ARRL, ARRL, ARRL, scQRPions 38, CQC 352, ARRL, ARRL, ARRL, ARRL

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "David D. Meacham" <ddm@datatamers.com>
Subject: [6890] A taste of the future.
Message-ID: <Pine.LNX.3.91.961221115104.15592A-100000@dt1.datatamers.com>

Gang,
Last weekend I hooked up my 10-meter (Mizuho) HT to the KT-34A tribander
at 30 feet for the ARRL 10-meter Contest. The rig puts out 2W on CW & 2W
PEP on SSB. I didn't try very long or very hard, but managed to work the
following on Sunday:

CW: 2 stations in Florida
SSB: 1 station in Florida
     1 station in Argentina (!)
     2 stations in New Mexico
     1 station in California

So, 10-meters is beginning to come alive and 6-meters won't be far behind.
It's time to start thinking about rigs and antennas for 12, 10, & 6 meters.

72, Dave, W6EMD, Redwood City, CA

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Bruce Huyck <bruce@pad-uky.campus.mci.net>
Subject: [6897] Airline travel questions
Message-ID: <MAPI.Id.0016.00727563652e706136464146303030@MAPI.to.RFC822>

I want to take my QRP equipment with me of some business travel coming =
up
next year. I am interested in anyone's experiences with carry on luggage=
 or
otherwise.
I can imagine trying to explain what I am doing with rolls of wire, batte=
ries, and
small black boxes with funny little knobs and switches, to airport securi=
ty people.

I know the easy answer is to check my bags, but sometimes that's not the =
best
way to go.

Merry Christmas and thanks for your comments.
Bruce Huyck KS4V NC #1042, NE 432, ARCI 8419
Paducah, KY

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: jerryh@webzone.net (Jerry Henshaw)
Subject: [6872] Alternative QRP Batteries
Message-ID: <01BBEF1E.F7F7F360@pm1.ppp12.webzone.net>

Hi Gang,

I have used my Dewalt Power Drill's 12volt battery pack for powering my =
QRP equipment. Works great!! These batteries were meant for heavy =
discharge and repeated charge cycles. I just use to small alligator =
clips to attach my rigs to the battery terminals. They now have 14Volt =
versions available. These batteries are not cheap --- but if you =
already have the power tool --- what the heck?

BTW the response to my offer to send pictures of the LDG auto tuner =
installation inside my Sierra has been beyond my expectations. Next =

time I will be more cautious -- Hi Hi. BTW the offer still stands. (=
I'm a slow learner).

To Jeff Gold --- Sorry I didn't realize who I had the pleasure of =
talking to the other night!! Hope we can QSO again soon. I am new to =
QRP since Dayton '96 --- This is the most fun I've had in my 33 years as =
a ham operator.

73's and Merry Christmas,

Jerry Henshaw
KR5L / QRP
jerryh@webzone.net

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "William R. Colbert" <v31xe@dzn.com>
Subject: [6848] Aluminum Siding
Message-ID: <32BB7EAD.54A4@dzn.com>

Paulette, find an appropriate location with a screw capable
of being loosened, attach your feeder to feed the entire
section of siding as your antenna. There was an article in
either CQ,QST or World Radio (I just don't remember)
a couple of years ago about a fellow living in a mobile home
in a no antenna allowed park that did that and worked out
(according to him) quite well. Or the whole house could be used
as a large reflector?
--
72/73, Ray Colbert, W5XE, SOWP 1064M
(also af852@rgfn.epcc.edu)
El Paso, Texas

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: WJ4PRandy@aol.com
Subject: [6878] Another ANC-4 User Report
Message-ID: <961221114716_875460267@emout15.mail.aol.com>

Hi gang,
With Christmas looming in a few days and having read
the recent review of the ANC-4 from JPS on this list, I
decided that I really NEEDED this magical box. I have
been plagued on many occasions with incredible hash-

like noise around the QRP freqs but, (naturally) quiet
further away either up or down the band. To be fair, and
not promote a QRO conspiricy, the noise repeats every
so often up and down the bands.
At Dayton last year I was given a 73 mag, with Dougs "Squasher"
article and I even bought the FAR circuit board and parts I
didnt have at home. But, as you know, life is what happens
to you when you're making other plans, I could never find time
to build the thing. So, have a justified this thing enough yet?

The review. Out of the box you get your moneys worth just in
weight alone. It is suprisingly heavy for a package that is about
two fistfuls. I opened it up and found that is is very well made.
Except for the "Ramsey-ish" feel of the controls. They act very
loose and move off-center as you turn them. Unfortunately, you
move them a great deal early on and I was afraid I would wear
them out soon getting used to the operation of the box.

 When I was dreaming about building Dougs
"Squasher" I had planned to use the "secondary" RX jack on
the back of the Paragon to couple in the "offsetting noise source".
It looked like this box could hook up the same way so thats how
I attached it to the Paragon. Just to be clear (?) my Paragons
secondary RX jack is connected into the receive path all the time
and by hooking up the box to this input I didnt have to worry about
the transmit switch-over problem.   Just to protect JPS, they have
no idea I did this. I didn't ask them.

Hey! It woyks!! I was able to counter most man-made noises I
came across and I was able to introduce some new ones! It is
very important to keep the sense antenna away from things like
computers and clocks and rf noise sources in the shack since
they can be amplified and injected into the RX path. The best
advice from the manual is to put a sense antenna (a small dipole)
near the main antenna (read: outside). I was also able to use
the ANC-4 as an active antenna by accident. This is a neat
by-product of the box and I look forward to exploring that "feature"
in the future.
The $175.00 price tag made me pause and explore the calendar
for the time to build the "Squasher". But, I figured I was making a
$35.00 "decision", since I wouldnt think twice about it if it was
priced a bit lighter at about $135.00. But, I have it NOW and it
is making my limited operating time more enjoyable.
(Attention TenTec!! Put this in your next generation of Xcvrs!!)
73, Randy WJ4P

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Ron Giuntini <rong@slip.net>
Subject: [6850] Antenna close to roof
Message-ID: <E0vbIuE-00044n-00@slip-3.slip.net>

I am in a wood and stucco house with a composition roof. I wonder if there is any point to my trying to use a dipole type antenna without traps if the antenna is at some points only about 5 or ten feet above the roof. Basically, how much interaction can I expect between a mostly wooden structure and an antenna? Any thoughts?
Ron

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [6893] Balanced tuner
Message-ID: <M1206654.001.s66d0.1.961221202748Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Tony:
I'm coming late to your thread, as I get the digest a bit delayed lately, for some reason.

I have been using a balanced tuner for close to 40 years now. Made it during my Army time in Alaska (ex KL7SMC).

I have a split stator variable capacitor, about 100pf per section I think. I use the B & W plug in coil set with swinging center link. Instead of the two turn wire link, I wound a single turn Faraday shielded link from a turn of coax to aid in suppressing any harmonic radiation through capacitive coupling between the link and coil. Whole thing is built on a cigar box!

This is a superb tuner for any antenna fed with balanced line. I have used it on dipoles, vee beams, delta loops, diamond loops. If you ground the center of the coil and the frame of the capacitor, you can also feed unbalanced antennas, whether long single wires or even coax.

As LB mentioned, a trade off is the need to plug and unplug coils. Also changing antenna lead taps. I have seen complete coil sets for sale at flea markets. However, you can build your own easily. I was missing the 40m coil to my set for years, so ran with a home made one. Finally found one at a flea market, and retired the howemade one.

I use miniature clips that fit between the coil turns without shorting to the adjacent turns. Also, I use a very limp, flexible wire on each clip, as a stiffer wire will move the position of the clip when you let go, often shorting

to the next turn.

This kind of tuner does not require a reference to ground, so long as you are feeding a balanced antenna system. If you go to an unbalanced system like a long wire, then it will need a ground. A coax fed dipole with a balun at the feed point would not require a grounded tuner for antenna feeding purposes.

You might want one for other reasons, however, such as draining off snow static if you live where this occurs.

Anyway, one more ham's observations.

72 and Merry Christmas,

Bob N6WG

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Frank Emens" <femens@iquest.com>
Subject: [6867] club qrp presentation
Message-ID: <199612211314.HAA04829@vespucci.iquest.com>

In a rash moment I agreed to make a presentation to the local ham club on qrp. Does anyone have any inputs on the best way to approach the subject with the average club membership with a wide range of interest? I'd appreciate any suggestions on ways to capture everyone's attention.

73,

Things are more like they are now than they have ever been before
Frank Emens   femens@iquest.com

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: KFGlynn@aol.com
Subject: [6873] Ctr Insulator for ladder line
Message-ID: <961221103140_1653986493@emout08.mail.aol.com>

Hi Gang,

I use 1/4" plexiglass with very good results on my portable antennas - 40M center-fed dipole, 40M and 80M delta loops. Just cut the plastic into a T and make 3 notches with small drill bit for the ladder line to pass through as a stain relieve. Make 3 holes for ant elements and center support. Works

well and a friend from the office had a spare sheet of the stuff in his garage, so the price was certaintly right.

72 Kevin N2TO

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Eric Swartz (WA6HHQ)" <erics@cruzio.com>
Subject: [6884] EA9IE worked QRP!!
Message-ID: <32BC1F17.1EA7@cruzio.com>

This is a TRUE story.

Its raining here on Monterey Bay as I straggle into my shack at 8:30 Saturday morning. I'm supposed to be going last minute Christmas shopping with my wife, but I think I'll sneak on the air for a few minutes if I can get away with it.... Its cold, wet and dreary - a perfect day for ham radio!

I decide to tune around 17M SSB, and I immediately come across EA9IE in northern Africa calling QRZ'd W-fours. He's 20 over nine! My first reaction is to reach over and turn on the BIG amp (Yes, I admit it, I once ran QRO...), but the recent post here on QRP-L about wanting to work the EA9 on QRP came to mind and I resist the urge. I switch to the dummy load and carefully set the rig for QRP levels and then wait for him to call for W6's.

Five minutes later my chance comes. 'EA9IE QRZ'd W6/W7?' I jump in the pile up with my massive QRP signal. 'W-A-6 Hotel Hotel Quebec! ....' No luck... He works another W6 and calls again 'QRZd W6/W7?'   'W-A-6 Hotel Hotel Quebec! ....' No luck again (I'm beginning to get the urge to turn on the Alpha, but I resist...)

Then the EA9 asks QRZ W6/W7 for a third time... I give my call, AND HE COMES BACK TO ME! 'WA6HHQ, your ten over nine.'   TEN OVER NINE?? TEN OVER NINE?? I almost fall out of my chair! I quickly give him his 59+ report and finish by Signing WA6HHQ/QRP. Then I sit back and try to stop hyper-ventilating.

Wow, sometimes the propagation gods do smile on QRP addicts! I'm now fully awake, full of energy and I'm even ready to go out and face the crowds at the dreaded shopping mall!

Who says "Life's to short for QRP"? I'm jazzed!

72,   Eric   WA6HHQ/QRP

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Bob Tellefsen-CNSE97" <Bob_Tellefsen-CNSE97@email.mot.com>
Subject: [6894] feedline
Message-ID: <M1206656.003.s66d2.1.961221202749Z.CC-MAIL*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Glen:
I use 300 ohm twinlead on my loops, and have no trouble with the feedpoint. I live in a very windy area, too.

I cut a piece of plastic, perhaps 1/8 inch thick, in the shape of a T. I terminate each loop wire on one corner of the T, and then solder the twinlead to the wire ends. Then I use plastic electrical tape to tape the twinlead down on the leg of the T. Now there is not strain at all in the area of the connections. The leg of the T is about 4 inches long, and the top bar about 3 inches across.

Hope this helps.

72, Bob N6WG

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [6875] For sale (for sanity) HW-9 + accys, OHR-EX II/20m
Message-ID: <Pine.3.89.9612211001.A30156-0100000@w3eax.umd.edu>

WARC pack included - 80-10m. Also have HFT-9 tuner, HM-9 wattmeter (SWR/5/50 watts). Cadillac of QRP rigs (no, the Index is the Rolls Royce).

Face plates are in excellent shape, and everything plays well. Cases are somewhat scratches but no gouges, no dents. Manuals included.

Also have OHR-Explorer II for 20m in excellent working shape. Was $100 new as kit, Variable IF BW works great.

HW-9 $310
HFT-9 $55
HM-9 $55
OHR Explorer $105

Package deals considered. Must sell. Period.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: wb2vuo@juno.com (William K Hibbert)
Subject: [6900] FS: QRP+
Message-ID: <19961221.173711.4679.0.wb2vuo@juno.com>

I am posting this for Jack, KT2V who is not on the QRP-L.

Jack has a QRP+, a little less than a year old, with the accessory mike.
He is asking $400.00 for the rig.

Jack can be contacted either via landline at (716) 833-5995, or at the
following Email address: jbratty@worldnet.att.net

Please contact him directly about the rig...

72, Keith, WB2VUO

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Charles Stackhouse <cstack@cyberhighway.net>
Subject: [6895] FS:HW-9 Station package
Message-ID: <199612212036.NAA18557@cyberhighway.net>

Too many of my rigs never get on the air, therefore I reluctantly will sell
my HW-9 station as a package deal only.

For Sale HW-9 Station

          HW-9 with WARC bands
               (modifications - dial lights
                       - 450 Hz cw filter per KB1MJ --original parts
included to restore to stock condition)
             PSA-9 power supply
             HM-9 QRP wattmeter/SWR meter
          HFT-9A antenna tuner
          SP-99 speaker
          All manuals
          HW-8 Handbooks (1986,1991) ed. by Mike Bryce, WB8VGE

Very clean station (few light scratches)--all work great (my last QSO was November 29, 1996)

Will ship to lower 48 for $450 (will only sell as a unit)

Please reply direct. Interested responses will be "placed in the hat" (thanks N7KT for this idea) and I will select one in one week.

72/73 de Charlie WA2IPZ/7 cstack@cyberhighway.net QRP-L 362
208-678-8683 Call before 10 PM--Mountain time

ARCI 7547 NORCAL 341 NEQRP 110 MiQRP 968 GQRP 6957 OKQRP 188

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Jerry Meng <renbo@mail.chinapro.net.cn>
Subject: [6862] IC-751 Display MOD???
Message-ID: <3.0.32.19961221202722.00720340@mail.chinapro.net.cn>

One of the local OM BA1KY(ex:C7KY) ask how to modify IC751 to
let it display in 10Hz resolution. His IC751 currently display
frequency in 100Hz.
I am sorry this question might beyond the scope of this list.
But I really don't have any other list to post.

73 & Merry XMAS

Jerry Meng, BA1FB

mailto:ba1fb@amsat.org
http://www.srsnet.com/~ba1fb

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Jeffrey M. Poulin" <jpoulin@erols.com>
Subject: [6901] KB6MT code tapes
Message-ID: <199612212311.SAA08893@smtp1.erols.com>

Dear Gang:

Can anyone tell me where to get the practise code tapes put out by Jerry Ziliac, KB6MT? There were quite a few favorable comments about them but I

can't find them listed in the radio magazines.

Thanks in advance for any info. Please feel free to e-mail me directly if you don't want to use up list bandwidth.

Jeff, KF4JSV qrp-l #742

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: jerryh@webzone.net (Jerry Henshaw)
Subject: [6885] LDG Auto Tuner Picuters
Message-ID: <01BBEF37.02A491C0@pm1.ppp12.webzone.net>

Hi Gang,

Dwyane at LDG Electronics has posted three pictures of the autotune = installed inside my Sierra Installation --- (www.radix.net/~ldg/). = Just click on the QRP Autotuner in the products list and it will take = you to the page.=20

A note to all of you who asked me to email you the picture set, the = pictures on LDG's page are better than the ones I sent. So you might = want to go and take a peek at these as well.

72's

Jerry Henshaw
KR5L /QRP
jerryh@webzone.net

(Standard disclaimer applies -- I am just a statified customer of LDG = Electronics)

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Jeff Casey <WB5GWB@sprynet.com>
Subject: [6869] Lead acid camcorder battery problem
Message-ID: <199612211440.GAA09016@m7.sprynet.com>

Gang,
I was thinking that a lead acid camcorder battery would be great for portable operation with my new Norcal 40A. However, the 12v 2000mah sealed lead acid batteries that my camcorder uses always fizzle out after only about a year, and

I don't use it that much. After maybe only a dozen charge-discharge cycles, the capacity starts dropping noticeably with each cycle. Soon, it refuses to accept any charge whatsoever. I've had to buy maybe 6 new batteries in 6 years (=$240! Wow--that smarts!!). What am I doing wrong??

I use the charger that came with the camcorder. It has an LED that comes on during charging and shuts off when the battery is supposedly charged. As the battery's capacity drops, it reaches a point where the LED goes off after only a few minutes or seconds of charging (or doesn't come on at all), even though the battery is too dead to make the camcorder turn on.

My only hypotheses as to why the batteries are dying are: (1) I don't recharge them immediately after each use, (2) the charger is a piece of manure, (3) the batteries themselves are pieces of manure, or (4) supernatural powers conspire to prevent me from videotaping my kids' judo tournaments.

Returning to QRP, where does this leave me in terms of choosing a small rechargeable battery pack in the 1000-2500 mah range for the 40A? Are nicads more robust that lead acid batteries? Any advice on chargers?

Thanks much for your help!

Happy Holidays & 72,
Jeff

Jeff T. Casey / WB5GWB / Long Island, NY / ARCI ARRL ARS LIQRP QRP-L
Ob-Shameless Plug: "Contact me for info on the Long Island QRP Club.
No dues, No officers, No boring lectures, Just QRP Fun!"

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Bill Urie <burie@linknet.kitsap.lib.wa.us>
Subject: [6903] MFJ 9020
Message-ID: <Pine.SUN.3.95.961221154142.14383A-100000@linknet.kitsap.lib.wa.us>

Hello
I have a MFJ 9020 qrp xceiver for sale
for $110 plus shipping. Works fine.
Bill Urie W7XV qrp-l #898
w7xv@amsat.org

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: mbarnes@islandnet.com (Mary Barnes)

Subject: [6889] Mike Kilgore's address
Message-ID: <v01540b01aee175017093@[198.53.172.28]>

Does anyone know if Mike Kilgore has an e-mail address? I sent him a check at the beginning of the month to join the G-QRP club, but I sent it to his old address and would like to find out if he is having his mail forwarded and whether he received it.

Bill <VE7MEW>

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: ji3m@maxwell.com (James R. Duffey)
Subject: [6888] More On Tuners - KISS - Use an L
Message-ID: <v02130500aee1cd146bb0@[192.31.66.229]>

At the risk of restarting a dormant thread, I would like to add my $0.02 worth on tuners to what has been posted earlier in the week. I have been traveling and occupied at meetings and have only now had the chance to sit down read the e-mail and compose a post.

I noticed that little has been said in the multiple band antenna/tuner thread about the L match. In my opinion, an L match is the simplest way to build a tuner to match from 50 ohms to an arbitrary load.

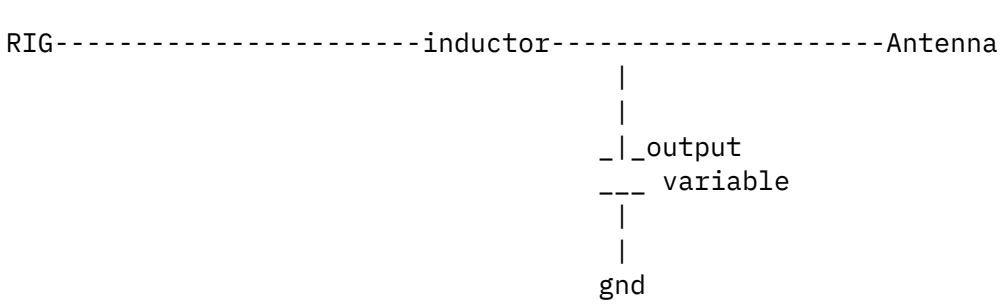
I suggest an L tuner rather than the more commonly suggested pi or T. This choice of the L is primarily based on the KISS principal. (Keep It Simple Stupid) Any arbitrary impedance can be matched to a 50 ohm resistive load with two elements, a series inductor and a shunt capacitor. What is more, there will only be one unique setting of the inductor and capacitor at which this match will occur. This is not true of the pi and L networks where several different settings of L and the two Cs will result in a match. For perverse loads some of these settings can have very different losses.

There are a couple of down sides for the L match. There will be some loads in which particularly low or high values of the L and C may be required of the L match, but in general these are not very common in most amateur situations, and when they occur the values are not difficult to fabricate, particularly for QRP operation. Another down side of the L match is that the capacitor has to be flopped from the antenna side to the transmitter side when the load goes from above 50 ohms resistive to below 50 ohms resistive.

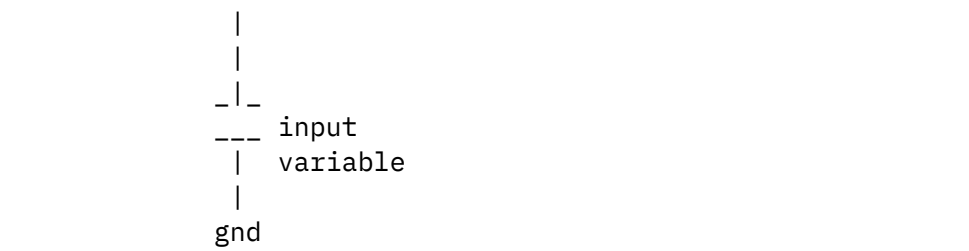
Glen, VE3DNL, generated some nice ASCII art, a talent which I do not

possess, in conjunction with his posts on pi networks which demonstrates this so I am posting his art and captions;

"If your antenna is HIGHER Z than 50 ohms, then the lowest Q tuning reverts to an L network, where the input variable cap tends toward minimum capacitance:



So why use a PI network, rather than the simpler L network? Because the PI lets you match to a LOWER Z load as well as a HIGHER Z load. The L network that matches to an antenna impedance LOWER than 50 ohms looks like this:



So you can adjust the PI to simulate either L network. Its more versatile.
Glen VE3DNL leinwebe@mcmail.mcmaster.ca "

By the way, for most antennas that hams wish to use on multiple, the L match will work fine with only one configuration or the other required and no flopping is required. As an example, a 135 - 140 foot long wire end fed with an L match consisting of a 365 pf broadcast variable capacitor, a coil wound on a toilet paper roll with multiple taps, and a radio shack 10 pole switch to switch the taps will make a fine and inexpensive 80-10 meter multiple band antenna. It should take powers up to 100 watts fine. The resistive load will always be above 50 ohms in this case, and no capacitor flopping is required.

If you wish to use the tuner on arbitrary loads without switching the capacitor, and you can tolerate another component you can build a tuner that does not require switching the capacitor from one side to the other.

Build an L match with the capacitor on the rig side to transform the load to 12.5 ohms. Then use a 4:1 unun (unbalanced to unbalanced) transformer to transform the load to 50 ohms for your rig. This should match everything normally encountered in Ham Radio, including short mobile antennas.

Dr. Ulrich Rhode-Schwartz (Spelling?) presented a nice tuner in his articles on high performance receiver design in QST a few years back. It was essentially the tuner I described in the paragraph above with a capacitor added at the output in series with the inductor, and a small parallel inductor across the tunable capacitor at the input. This should form the basis for a nice automatic tuner.

I picked up a copy of Antenna Compendium 5 on my travels. It has some nice articles in it that apply to this multiple band antenna thread; One on the use of baluns in multiple band antenna systems, One on automatic antenna tuners, One on remotely tuning antennas, and one on coupled resonator antennas. As an antenna junkie I recommend a copy to everyone.

Good propagation to everybody. Use the holidays wisely. Put up new antennas. - Duffey KK6MC/5

James R Duffey KK6MC/5 DM65
30 Casa Loma Road
Cedar Crest, NM 87008

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Wilford D. Lindsey" <70511.3041@CompuServe.COM>
Subject: [6858] N/T FOX Report for Thursday (Short)
Message-ID: <961221062131_70511.3041_IHD41-9@CompuServe.COM>

Barry:

FTR, I listened for nearly the entire two hours, to no avail. Used the following equipment:

```
    Sierra        |
    TenTec ARGO   |- plus MFJ CW Optimizer filter and headphones
    Norcal 40a    |
```

Sad to say, never heard even a peep. Did hear lots of QSO's on or nearby 7.122 (plus slow searches +/- 5 KHz), but nada from you. Once heard someone asking where is the FOX, but could not hear the reply. Never even heard anyone trying to call you, an unusual development. I can

often hear the "pileup" even if unable to work the FOX myself.

Interesting thing: all your reported QSO's are from Missouri, making me wonder whether Thursday nite band condx were distinctly favoring local QSO's only.

Anyway, thanks for serving as our FOX. Let's hope for another run at it. Happy Holidays to you and yours!

72/73,
--Doc/K0EVZ QRP-L #861

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: nskousen@scientech.com (Niel Skousen)
Subject: [6837] N/T Fox Rpt
Message-ID: <v02140b02aee0afa352bb@[198.60.91.132]>

Thanks to everyone for another great night ! This was the first time that I'd had to deal with recurrant QRM. I ended up moving (< +/- 1kc) 3 times to avoid what appeared to be the same station. I assume that it was coincidence, but...

I don't know how many others had prob's, and would appreciate the feedback. Hope I did not loose anyone, tried not to move too far, just enough to clear the QRM.

```
========================
0205   ??ev?
0212   KU7Y    449   449   RON    NV  17
0222   W7GVN   339   339   ROD    AZ  849
0229   NQ7X    559   359   FLOYD  AZ  343
0234   W1HUE   599   599   LARRY  ID  228
0236   K5ON    339   329   GARY   NM  77
0248   W6OD    229   ---   -----  --  --
0251   KC7NEV  337   449   JOE    AZ  191
0255   W6EMD   339   439   DAVE   CA  294
0308   W7KXB   559   549   BILL   AZ  --
0331   KI0G    449   559   BOB    CO  239
0342   N7CTJ   559   449   DICK   --  843
0349   N3???
0355   AB5OU   559   559   TIM    NM  72
0358   W7JDZ   599   599   MAC    ID  2W
0400   KC7SYL  559   579   ART    --  --
```

14 w/ W6OD (?) 13 w/o

W6OD was clear and readable, copied the call and sent my data, but he never came back. Do I count that one ?   Last one did not appear to be a QRP-L member by the exchange, but I'll send him a note and invite him.. :-)

Will be printing another batch of QSL's this weekend, so will get all QSL's in the mail before 1/1/97 (incl last Fox stuff...)
Thanks again all for your patience and a very fun time

72
dit dit dit
Niel

--------- -.. . .-- .- --... ... .-   --------------------
Niel Skousen: Sr.Eng, SCIENTECH.SPG/CFG   nskousen@scientech.com
208.525.3742, FAX 529.4721 Idaho Falls ID   WA7SSA QRP-L.119
-Z--DN33wm--- . . . -

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "William R. Colbert" <v31xe@dzn.com>
Subject: [6846] new call
Message-ID: <32BB7BD3.3723@dzn.com>

While perusing the QRZ callbook fcc action page yesterday, I
noticed that a certain WA6ERB had changed - now N0EB- I
send my congratulations again to you Bob.
Sure have been a lot of changes coming out this week, over
2000 actions in just two days. Amazing that they were ever able
to do anything very effectively before. No wonder a major
crisis occurs when the computer coughs.
--
72/73, Ray Colbert, W5XE, SOWP 1064M
(also af852@rgfn.epcc.edu)
El Paso, Texas

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Mike Boice <kd0fx@worldnet.att.net>
Subject: [6857] No power out on 17M Sierra
Message-ID: <1.5.4.32.19961221062317.0067c748@postoffice.worldnet.att.net>

Built the 17 meter Sierra band module, but am only getting about 28 mW out (as measure with an RF probe). I had planned on trying QRPp sometime, but this is a little quick :-). Everything works fine with the 40 meter module, where I had to turn the drive level down some to keep it at 2 watts. I just noticed the 17 M problem tonight, so haven't had the chance to get in there with the probe yet.

I was wondering if anyone else had had this problem with a module, when other modules worked fine. I did a good visual inspection for solder bridges, and touched each joint with a hot iron again to help insure against cold joints.

Any ideas? BTW, the receiver works just fine on 17 meters - it's just a serious lack of output power.

73,
mike KD0FX
Richland WA

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: N2QCE@aol.com
Subject: [6880] Ooopppssss! QSL info for 9A2OM not IM
Message-ID: <961221120406_1721105297@emout18.mail.aol.com>

Sorry all,
I wrote the wrong call sign earlier. I need QSL info for 9A2OM. Any help? TNX and happy holidays de John

73 de John M. Evans N2QCE
Grid:FN30pt LIQRP QRP-L #597 10-10 #61769
E-mail: n2qce@aol.com

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: N2QCE@aol.com
Subject: [6879] QSL Info 9A2IM
Message-ID: <961221115152_169388422@emout06.mail.aol.com>

Hi Gang,

Does anyone have an address for Kruno 9A2IM? I worked him on 14.253 today but could not hear QSL info due to QRM. TNX es Happy Holidays de John

73 de John M. Evans N2QCE
Grid:FN30pt   LIQRP QRP-L #597 10-10 #61769
E-mail: n2qce@aol.com

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Douglas L. Datwyler" <datwyler@mail.aros.net>
Subject: [6847] Radio Merit Badge
Message-ID: <32BB607B.3D37@mail.aros.net>

To those who will be teaching the Radio Merit Badge,

The requirements for the Radio Merit Badge have changed in 1996. Pull down the new 1996 requirements from:

http://www.lightlink.com/bbm/k2bsamb.html
(This web page had info on the 1997 Jamboree)

The requirements NO LONGER REQUIRE LICENSING of any type. See requirements 7. a) Amateur Radio 1-7.

Douglas L. Datwyler WR7O   Committee Chair Scouts/Varsity/Explorer
datwyler@aros.net   Basic for Cub/Scout/Varsity/Explorer
                  Boy Scout Wood Badge (FOX)

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [6898] Take off angle...

>From: ed.welch@cheaha.com (ED WELCH)
>Speaking of take-off-angles, Cecil, I've got a loop with the bottom at
>abt 12' and a dipole at abt 32'. I guess that the dipole should have a
>lower take off angle than the loop, eh? And, thus be better for DX?

Hi Ed, I'm assuming that's a horizontal loop at 12'. Of course, a dipole at 32' has a lower TOA than a horiz loop at 12' on the lower HF frequencies. In general, horiz loops are good for close-in stuff and vert loops are good for far-out stuff.

For the lower HF frequencies, if the bottom of your *vertical*
loop is at 12' and its top is
at the same height as the dipole, you will get more low angle
radiation from the vertical loop than from the dipole if you feed
the loop at the center of a side because the fields generated by
the horizontal elements of a vertical loop fed mid-point of a
side tend to cancel, resulting in primarily vertically-polarized,
low-angle radiation. In fact, a vertical loop fed mid-point on
a side acts somewhat like two elevated phased verticals. The
horizontal elements act somewhat like a balanced transmission
line with a rather large characteristic impedance.

73, Cecil, W6RCA, OOTC

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [6896] Tuner Efficiency via FS

>From: FACMSA@facilities.buffalo.edu (Adams, Mark S.)
>5. The highest efficiency tuner will be the one that yields the highest
>FS. (field strength) Mark N2VPK

Hi Mark, if you have anything in between your tuner(s) and the balanced
transmission line, your measurements may be screwed, oops, I mean
skewed by whatever is there. For instance, if it is a 4:1 - 9:1
voltage balun the measurements might not tell us much. Please make your
measurements using a 1:1 CURRENT balun.

Make sure your FS measurements are made at least one wavelength from
the antenna (IMO, two wavelengths is better).

73, Cecil, W6RCA, OOTC

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Jeff Grudin <grudin@pacific.vdbs.com>
Subject: [6855] Tuner losses
Message-ID: <32BB7B57.2F41@vdbs.com>

Thanks to all who replied about how to best set a tuner for optimum
efficiency.

I find it interesting that there were many ideas of how to set it up.
Some seem to conflict with others.

I would like to try these ideas and measure which are the best. If I hook up a rig to a tuner to a wattmeter to the antenna. Then tune the various ways and measure the power out on the wattmeter. Would that be adequate to make the comparison or is the field strength or some other method better?

Thanks.

73 de Jeff AC6KW
grudin@vdbs.com

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [6892] Upgrades
Message-ID: <199612212020.NAA27583@dancris.com>

I'm happy to report that two qrp'ers, Joe KC7NEV and Dan KK7BD, both Arizona ScQRPions, upgraded to Extra class today.

Congrats to both of them!
73,
Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, AK QRP #30, not in any order of importance.

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Chris Doherty, N3UVR" <doherty@scranton.com>
Subject: [6881] web address change
Message-ID: <199612211711.MAA04660@ns1.scranton.com>

For those who may have a link to my page, a new, and I hope, final address change:

http://users.scranton.com/~doherty

-73- de N3UVR, Chris Doherty
QTH 715 Monroe Ave.
Scranton, PA 18510
QRP-L #382 FISTS #2347
http://users.scranton.com/~doherty

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996

From: "Bernard F. Gaffney, Jr." <70272.2555@CompuServe.COM>
Subject: [6886] Whattaya mean WE??
Message-ID: <961221180042_70272.2555_JHD61-2@CompuServe.COM>

>Yeah, Mark, but thats cause "we" are starting to be the old farts.

>Rich Wilkerson WD6FDD, Santee, Ca.

What do you mean WE, Kimosabe???

72.5(halfway between 72 & 73) de N8PVZ

---bernard gaffney

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: DYARNES@aol.com
Subject: [6871] Re: 10 Meters (sorta')
Message-ID: <961221100601_1356098506@emout07.mail.aol.com>

In a message dated 96-12-18 12:32:20 EST, lve1@inel.gov (Larry V East)
writes:

<< It appears that 10 was open mostly at lower latitudes -- say below 40
 degrees north or so. >>

Obviously this is why people REALLY tend to migrate from north to south--so
that they can catch these good openings on 10 meters! It has absolutely
nothing to do with the fact that my son (home on leave from the USAF) and I
played 27 holes of golf yesterday in our shirtsleeves! Life is good!

Merry Christmas to all the fine folk here on QRP-L from the sun capital of
the U.S.--Arizona.

72 de David W7AQK

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: k7yha@juno.com (Richard H. Arland)
Subject: [6891] Re: 38 Special -- Extra Parts Kit
Message-ID: <19961221.201811.10503.3.k7yha@juno.com>

Great idea. If I don't have to scrounge for parts, cabinets, screws,
feet, knobs, the PA amp kit, etc, I'll have my 38 special on the air
before FD 97!

73 rich K7SZ

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Robert D. Haslach" <rhaslach@CapAccess.org>
Subject: [6868] Re: 80 meter beacon
Message-ID: <Pine.SUN.3.91-FP.961221091207.398B-100000@cap1.capaccess.org>

Scott - I picked up a 10m beacon this morning at 1136Z on 28.296 from
W3VD... nice and strong , now at 1409Z it has dropped down into the noise.

Regards, N3FRT WDC
Robert D. Haslach
Bye

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: kt3a@juno.com
Subject: [6904] Re: Airline travel questions
Message-ID: <19961221.184803.5415.2.kt3a@juno.com>

Bruce and other flying QRPers,

Last week myself and another ham flew from an airport
in SC. Both of us had 2m HT's along in our carry on bags.
Every time he gets asked questions about his and must
open his bag. I never have had that happen to me with my
HT. I believe this is due to the internal ground foil on the
pcb inside the radio. We have 2 different makes.

I have traveled with my NorCal 40 and don't have problems.
Do not take lead acid batteries as they may be considered
hazardous cargo. I use alkalines with my QRP gear.
The cables don't present a problem to me. It is best to pack
them in your checked luggage to avoid delays.

This is a FAQ and I would think that most of the traveling QRP'ers
have experienced similar conditions. Let common sense prevail
and carry a copy of your FCC license to back up your statements.

72 Cam, kt3a
QRP-L 7

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Bob Follett" <bfollett@ditell.com>
Subject: [6883] RE: Alzheimer's Again - Long
Message-ID: <199612211719.KAA14180@orion.ditell.com>

Gang:

I didn't intend to create a big discussion on the subject, but I should
probably clarify the sited study:

Mike, PA3ASC wrote:

<<Seriously, a lot of research has been done in this field
for many years, and is still going on, but apart from the
microwave oven, few really conclusive results have seemed
to emerge so far. A big question mark hangs over the whole
subject.>>

Yep, that's the correct conclusion -- except the studies weren't for
Alzheimer's. The USC study was based on studying 326 Alzheimer's victims over
the age of 65 who were hospitalized versus a control group of 152
non-Alzheimer's patients at the same facility. Data was gathered primarily
through interviews with family members, that males with Alzheimer's were 4.9
times as likely to have had an high occupational exposure to EMF and females
were 3.4 times as likely.

"Seamstresses are highly over-represented among Alzheimer's cases and their
exposure is the highest for all occupations"..."The exposure is high because
they work so close to the electrical motor in the machine. Also at risk are
carpenters and others who use electrically powered tools held close to the
body''.

KEY: "Our bottom line is that the results are too preliminary to say
anything" said the Director of Alzheimer's research at the national institute
on Aging, which sponsored the research.

As our good Doctor Rick pointed out, EMF exposure has been a source of
controversy for many years. Interest in EMF has declined in the general

public, and us Hams, since the Nat'l Academy of Sciences issued a report in October indicating there is no clear and convincing evidence of a link between residential EMF's and cancer.

Please, guys and girls, I don't wish to spur a QRP-L debate on this subject. Its really not worthy of computer ink until and when a second study by another group reproduces the results published in "Neurology". Also don't confuse studies done looking for correlation between EMF and Leukemia, or cancer with Alzheimer's...

On the other hand, the FCC hasn't had the final word on Amateur license RFI certification :-)

In any event, we aren't warming our shack and bodies with the heat of a big Alpha -- maybe someday QRP will become "medically correct". And I promise I won't make anymore Alzheimer's jokes.

Happy Holidays, and 73, Bob

Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 E-mail: bfollett@ditell.com

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: w77kxb@juno.com (William Harris)
Subject: [6840] Re: Alzheimers
Message-ID: <19961220.173458.4855.1.w77kxb@juno.com>

But BOB; you've got to consider the positive aspects of Alzheimers. You never hear any old jokes and you meet new people every day.

Seasons greetings to you and yours
Bill Harris W7KXB
Mesa, Arizona.

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Gordon Goodwater <gordong@minimall.imm.com>
Subject: [6841] Re: Alzheimers
Message-ID: <Pine.BSF.3.91.961220170400.22422C-100000@minimall.imm.com>

Also, Bob, you can gift wrap all your radios right now and have a *brand new* station on Christmas day. ;-)

Best of the holidays to you,
Gordon KC7TTV
Cheney, WA

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Wa2eaw@aol.com
Subject: [6842] Re: Alzheimers
Message-ID: <961220205737_68658031@emout05.mail.aol.com>

hi gang;
regarding emf , what about those of us who use electric razors. There was some articles about the undesirable side effects of proximity to emf in electric razors. It sounds like the radio report that said the air polution was unacceptable. ie; dont breath the air.
Bob

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: tart1@juno.com (Nathan C Tart)
Subject: [6849] Re: Alzheimers
Message-ID: <19961220.231738.4751.1.tart1@juno.com>

I personally have known an awful lot of old hams
in my short 54 years on this earth, 40 asa ham
and a maritime radio opr for several years.
Based on personal experience... I can not remember
one single case that would back that up....
(unless it is me and I forgot all the orhers)

Seriously I JUST DO NOT BELIEVE IT111111

Nathan AC4GT

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [6851] Re: Alzheimers
Message-ID: <Pine.SUN.3.90.961220203237.9882E-100000@vortex.sage.dri.edu>

On Fri, 20 Dec 1996, Nathan C Tart wrote:

> Seriously I JUST DO NOT BELIEVE IT111111

>
>   Nathan AC4GT

AMEN!

73, Ron,

.........KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu...........Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Richard Wilkerson <richqrp@pacbell.net>
Subject: [6852] Re: Alzheimers
Message-ID: <32BB6A91.5F3D@pacbell.net>

Monte Stark wrote:
>
> On Fri, 20 Dec 1996, Nathan C Tart wrote:
>
>
> > Seriously I JUST DO NOT BELIEVE IT111111
> >
> >   Nathan AC4GT
>
> AMEN!
>
> 73, Ron,
>
> ....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
> ....ku7y@sage.dri.edu...........Washoe Lake, Nevada....
> ....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....
****
You know, when I first got into this in the 50's (boy scouts) I thought
it was one of the requirements to get you ticket!   ..... being old .
When your 12 or so, everyone is old, but some of these guys were real
old and real sharp!!!
--
Rich Wilkerson WD6FDD, Santee, Ca.
NorCal, ARCI, Qrp-L, E.C.R.A.
        scQRPions
   *****Happy Holidays******

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996

From: "M. Monninger" <markem@primenet.com>
Subject: [6853] Re: Alzheimers
Message-ID: <1.5.4.32.19961220220427.00ee7d4c@mailhost.primenet.com>

At 08:41 PM 12/20/96 -0800, WD6FDD wrote:

>You know, when I first got into this in the 50's (boy scouts) I thought
>it was one of the requirements to get you ticket!   ..... being old .
>When your 12 or so, everyone is old, but some of these guys were real
>old and real sharp!!!

Yeah, but have you noticed that people aren't as old as they used to be???

Happy holidays to all...   Mark   AA7TA

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Richard Wilkerson <richqrp@pacbell.net>
Subject: [6854] Re: Alzheimers
Message-ID: <32BB785E.4C88@pacbell.net>

M. Monninger wrote:
>
> At 08:41 PM 12/20/96 -0800, WD6FDD wrote:
>
> >You know, when I first got into this in the 50's (boy scouts) I thought
> >it was one of the requirements to get you ticket!   ..... being old .
> >When your 12 or so, everyone is old, but some of these guys were real
> >old and real sharp!!!
>
> Yeah, but have you noticed that people aren't as old as they used to be???
>
> Happy holidays to all...   Mark   AA7TA
****
Yeah, Mark, but thats cause "we" are starting to be the old farts.
--
Rich Wilkerson WD6FDD, Santee, Ca.
NorCal, ARCI, Qrp-L, E.C.R.A.
        scQRPions
   *****Happy Holidays******

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: PA3ASC@mailbox.hol.nl (Mike Perry)
Subject: [6874] RE: Alzheimers

Message-ID: <199612211533.QAA14137@bonny.hol.nl>

Bob wrote
>Gang:
>A new study by the University of So. Cal reported in "Neurology" reports that
>incidence of Alzheimers is sharply higher amoung those people occupationally
>exposed to electrical fields, popularly called EMF.
>73, Bob
>Bob Follett AB7ST,

Gang,
The study cited above seems to be are based on statistics.

A statstical study done in Belgium (and actually mentioned
briefly at a conference some years ago) noted a
marked correlation between the growth in the human
birth rate (in Belgium) and the increase in the stork
population, thus confirming what we my Grandma told
me when I was small. From which we may conclude that results
of epidemiological studies must be treated with caution.

In addition, any discussion about the effects of electric-,
magnetic-, or electromagnetic fields is not meaningful
unless the field strength(s) and other pertinent environmental
conditions are quantified.

Seriously, a lot of research has been done in this field
for many years, and is still going on, but apart from the
microwave oven, few really conclusive results have seemed
to emerge so far. A big question mark hangs over the whole
subject.

That's my 2 (Dutch) cents worth.
73 de PA3ASC
--
Regards,
Mike Perry. [e-mail :-   PA3ASC@mailbox.hol.nl]
=-=--=-=--=-=-=-=-=-=--=--=--=-=-=-=-=-=-=--=-=-=-=

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: NilsBull@aol.com
Subject: [6902] Re: Alzheimers
Message-ID: <961221183328_404305737@emout09.mail.aol.com>

Damn! See, I knew it wasn't me! I just knew it was them rays. And after all

these years to have someone point out the obvious makes it all the more easy for me to explain the aluminum foil in my shorts (not to mention on the bed and between the covers and in my hat and my gloves and the jacket that I wear when I'm at work, the one with the little circuit inside the one pocket that warns me whenever THEY are around 'cause you don't wanna get caught without your aluminum foil undies when THEY come back. You know what happened last time!

You don't? Ach, du lieber, it vass 'orrible! First they took away the electricity of professional wrestling and then they unharnessed the magical healing powers of catchup and put it all back in the barn but left the carriage out in the rain and Grandpa had to go out there in his sweat suit and put it back in the blizzard of frogs that happened next! Why, you should-a been there!

Them crazy hippies! That's what ol' Blevins said to me! Yup. And I believe him! So there, get your own tapioca! Nurse! It's THEM! THEY're here again! Don't let THEM take my tapioca! Not now! After I saved all those little milk containers behind the window curtain in my room! No-o-o-o-o-o-o-o-o! Not the NEW PEOPLE! I just got used to the VILLAGE PEOPLE and now I have to deal with THEM? Ayeeeee!

73
Nils
WB8IJN +c

("A Saleman? I like 'im!...What-I-like-him, a Salesman!" -- an ancient Central Asian SubGenius greeting recently unearthed in a bottle of catchup from the last invasion of THEM [whose names we don't know and couldn't pronounce even if we did!] Ref: Zhanovizotlequetzalcoatl-ibn-el-Oshannesystein, 1998, pg. 23401*10E27)

And don't gimme none of that medschool gibberish about research reports and the findings of some crackpot gang of so-called statistical medicos! I knew the truth from the Before Life! Yessirreeeee! Them electricalized fields is dangerous! Why, one time my brother Gobbie turnt over his tractor tryin' to get his electrical fields laid out with aluminium foil (notice the "Canadian" spelling?) and dang near lost his second set of false teeth! Nope! It's an evil conspiracy of dupes, that's what it is! I heered about it on WWCR, you know! And them's the only sane radio station around, see! 'Special that guy what broadcasts from HOLY TOLEDO! Yep. A single catfish, working alone from the glassy-eyed knoll, HE was the ONE what brought THEM into my room at dinner time and.... gibber gibber gibber...

(This is gettin' way too easy. Dr. Rick? Can you help me? Pull-ease help me, doctor! My pet iguana isn't turning green any more! Have I done something wrong?)

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Rick Zabrodski <zabrodsk@med.ucalgary.ca>
Subject: [6844] Re: Alzheimers and EMF
Message-ID: <Pine.SUN.3.95.961220194432.15116C-100000@ume>

A committee of the national Research Council (NRC) recently reviewed 500 published studies on EMF and found: "Specifically, no conclusive and consistent evidence that shows that exposures to residential electircal and magnetic fields produce cancer, adverse neurobehavioural effects, or reproductice or developmental effects" Call 800 624-6242 for the report: "Possible Health Effects of Exposure to Residential Electric and Magnetic Fields" (National Academy Press)

 OR look up: www.ucalgary.ca/~rzabrods

electrically yours,

Happy Holidays! ;-)

Dr. Rick Zabrodski BSc, MD, CCFP(E) MRO * VE6GK
Clinical Assistant Professor * NorCal 519 ARCI 7650 GQRP 8329
Faculty of Medicine, Univ. of Calgary * "Power is no substitute for skill"

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
Subject: [6845] Re: Alzheimers and EMF
Message-ID: <Pine.GSO.3.93.961220220024.14422D-100000@destrier.acsu.buffalo.edu>

It may be just circumstantial evidence.......but has anyone noticed the effect of EMF on the characters that frequent the frequencies in the vicinity of 3894? There are some very high power stations that occupy that band segment.

Happy holidays to all. Hope everyone has at least some snow. It looks like the Hallmark Christmas card here :-)

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381

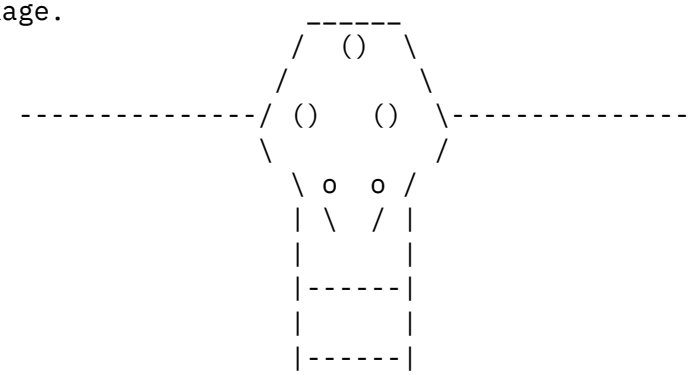
Life member ARRL
jskalski@acsu.Buffalo.EDU

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: SYDV00A@prodigy.com (FLOYD   SMITHBERG)
Subject: [6882] Re: ANT & RE:Tnx to The Keeper of the Li
Message-ID: <199612211640.LAA10846@mime4.prodigy.com>

--[FORWARDED PRIVATE MESSAGE]--------

     To: cebik@utkux.utcc.utk.edu
   From: SYDV00A
Subject: RE: ANT & RE:TNX TO THE KEEPER OF THE LI
   Date: 12/21/96 09:27 AM

I used one of Roy's Ladder Grabbers last summers TTF operation and found it to work very well. It's a rugged two piece molded, HD plastic device 4 1/8 x 3" that clamps the ladder line and attaches to the antenna wires internally with 10-24 screws and nuts....no soldering required. Has a hole in top center for supporting antenna if desired. Provides strain relief for the feed line and antenna wires and should almost eliminate any tendancy to breakage.



Hope this helps....
Floyd NQ7X   Phoenix ScQRPion dm33uq
Happy Holidays

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [6863] Re: ANT & RE:Tnx to The Keeper of the List

Message-ID: <Pine.SOL.3.94.961221072122.22905E-100000@utkux4.utcc.utk.edu>

On Fri, 20 Dec 1996, Bob Edwards wrote:

> > .... Twinlead feedline has separated from the double-
> > Zepp antennawire..... How-do-ya keep them durn things connected?
> >
>
> Just some general advice on twin lead connection at the
> feed point. I try to put all the stress of supporting the
> twin lead into the center insulation of the twin lead.

Roy Gregson of EMTech has a center connector for parallel line that is intended to solve this problem by eliminating the flex stress from the wires and wire junctions. He has a Web page with drawing of the $6.00 minibeast. http://www.isomedia.com/homes/starbuck/grabber.htm wil take you to the precise page. It has a hanger hole on top in case you need to support the antenna center.

I have not actually used one and would appreciate a general report to the group from a user.

-73-

LB, W4RNL

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Ed Tanton <n4xy@avana.net>
Subject: [6856] Re: Antenna close to roof
Message-ID: <3.0.32.19961221010427.0092d9c0@tiger.avana.net>

Hi Ron et al... Answer: not very much. I mounted first a Newtronics vertical and then a Moseley CL-33 at about 5 feet above the peak of an asphalt-shingled roof in 1972. As you would expect, it beat the daylights out of both the vertical and the dipole at about the same height (but between trees and not over a roof.) In my judgement it may interact to a small degree (requiring some tuning,) and it may alter your take-off angle somewhat, but I do not believe it will damage your signal in any really significant way at the far end of the QSO. Season's Greetings.

At 08:19 PM 12/20/96 -0800, Ron Giuntini wrote:
>I am in a wood and stucco house with a composition roof. I wonder if there
>is any point to my trying to use a dipole type antenna without traps if the
>antenna is at some points only about 5 or ten feet above the roof.

>Basically, how much interaction can I expect between a mostly wooden
>structure and an antenna? Any thoughts?
>   Ron
>
>
>
>
72/73

Ed Tanton N4XY   EMAIL: n4xy@avana.net   TEL: (770)579-3933 V/MBX/FAX
189 Pioneer Trail, Marietta, GA 30068-3466

QRP-ARCI#7663   G-QRP#6779   OK-QRP#172   QRP-L#758   AdvRC#140
NORCAL#1779   NCDXF   SEDXC

Life Member: ARRL   AMSAT   IDRA   INDEXA   QCWA   URL: Coming Soon

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [6864] Re: Antenna close to roof
Message-ID: <Pine.SOL.3.94.961221073300.22905F-100000@utkux4.utcc.utk.edu>

Ron,

Although wood and asphalt shingle are not perfectly transparent to RF,
they are not a major problem. There are potential problem areas to check
out under the roof. How much air ducting and house wiring are up there
and how far from the antenna. Is the insulation aluminum or paper backed.
The more metal surface just under the antenna--especially the center
portion--the more difficulties one might have in getting it to work just
right. But many folks operate successfully with attic antennas even
closer to the duct/pipes/wiring. So 5-10' above the roof peak is likely
even better. Since a dipole is not expensive, it may well be worth a try.

-73-

LB, W4RNL

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>

Subject: Re: Antenna Tidbits

LB:

I may accidentally have done just what you were advising against--erased Cecil's valuable discussion. Can't find in in my palmtop computer, though I make it a practice *never* to discard such items.

Bottom line: Will you please forward me a copy of the e-mail in question? Would really your assistance.

Happy Holidays to you and yours.

72/73,
--Doc/K0EVZ QRP-L #861

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [6865] Re: Antenna Tidbits (fwd): can some one help?
Message-ID: <Pine.SOL.3.94.961221073911.22905G-100000@utkux4.utcc.utk.edu>

Doc,

I committed my copy to paper and so it is not in my machine. But, by forwarding your message to qrp-l, perhaps some one has Cecil's post on his G5RV matching system still in machine form and can forward you a copy. I hope so. Happy holidays.

-73-

LB

---------- Forwarded message ----------
From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: w2gum@juno.com (anthony j colaguori)
Subject: [6899] Re: Balanced tuner
Message-ID: <19961221.170028.5119.2.w2gum@juno.com>

Thanks for your comments regarding the balanced line ATU. In that I don't change bands too often i don't find the plug-in coil tuner a problem. For home station use, I usually use large size ,well built parts in the antenna unit. I think it really pays off if you are trying to squeeze every bit of power and get into the antenna. HI.

In my design I change the coil with its taps all mounted as a plug-in unit. I also use an RF milliammeter in each feeder to maximize the tuning, Guess this approach goes back to the system we used in the " 30's ". BUT IT WORKS.
Real nice to exchange Ideas with you BOB Have a Happy 73 TONY W2GUM.

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Jim Kortge, K8IQY" <jokortge@tir.com>
Subject: [6838] Re: Cascade Final transitor
Message-ID: <1.5.4.16.19961221011511.24778762@tir.com>

At 09:58 AM 12/20/96 -0500, Steve, N2MNN wrote:
>
>1) If anyone has a source of a good transistor substitution list, please
>tell me. I find it educational to look over the specs of different
>transitors with the idea trying to figure out how they would perform if
>substituted in one of my radios.

I think a 2SC1969 may be a direct replacement. Someone with a data sheet should confirm this
>
>2) I got all excited when someone on the list awhile ago described a
>substitution for the final in the Cascade. It involved replacing it with
>another 2SC transistor, and rewinding the balun per Motorola specs. I can't
>find that e-mail, so can the author please send me the details again. Also
>if you could elaborate on the winding of the balun I would appreciate it, as
>I did not quite follow the brief explanation in your e-mail.

That would be me! :-) I replace the final in my Cascade with a 2SC1945, which is rated for 15 watts output, with the proper heat sink. I getting about 12 watts out on 40 and somewhere around 8-9 watts on 17 meters. This transistor uses a different pinout than the original, the collector and emitter leads are reversed. The big plus thought, is that the emitter is on the tab, so the transistor can be bolted directely to the back panel without the insulator kit. Tames the r.f. feedback problem with the original design a bit, and run quite a bit more power. It does require some reworking of the transistor leads to get it installed though.

As for the output transformer, it is wound using RG174 braid as the primary winding; 1 loop through the core. The secondary is two turns starting from the opposite end of the core, where you open up holes in the braid as it makes the turn to get to the other side. The secondary winding is threaded through these

tubes. I mounted the completed transformer on the bottom side of
the PC board so that the leads would be shorter, and I could bypass
the supply side of the primary winding easily with 0.001, 0.01,
and 0.1 uF ceramic capacitors. Three are used so that the if the
inductance of one of the capacitors is significant, the other two will still
offer a low impedance to r.f. This technique is often used to
bypass power r.f. stages and components.

Hope this info helps. Nice to see the Cascade back in the news!

72...Jim

Jim Kortge, K8IQY (ex NU8N) | BMHA, NorCal, QRP-L
jokortge@tir.com | __o   Cascade 17/40 SSB
Fenton, MI |_`\<,   Mizuho 17/40 SSB
...   . (*)/(*) . .   .   .

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: Ed Tanton <n4xy@avana.net>
Subject: [6887] Re: club qrp presentation
Message-ID: <3.0.32.19961221132100.00937630@tiger.avana.net>

Frank... there seem to be two or three things most of 'em are genuinely
impressed with:
     1. BRING some really good DX cards worked QRP (doesn't have to be 2-way)
and a list of your (and several other QRP friends' really interesting
contacts.)
     2. BRING a NorCal 40, 49'er, or even just an Altoids box. The incredibly
small size of these little rigs HAS to wow 'em. (but you have to demo at
least one on rcv-so if the audio needs help, bring an amp/spkr.)
     3. Point out the ADVANTAGES of QRP: a) NO TVI; b) Back-packability /
entire weekend's operation on small battery; c) NO TVI; d) Cost(s) very
low; e) NO TVI; f) High level of enthusiasm and activity-both in building
your own rig(s) and in operating all the special QRP events-that remind me
of when I was a kid doing this; and finally the DISADVANTAGE: so many rigs
and activities, so little time!!! And don't forget: No TVI!!

Also, if you have any solar power, or other similar things that are both
modern and unique to QRP operation, bring 'em and stress 'em. You most
important points are: 1) Low Cost(s)-High Fun; 2) Ease of portability; 3)
High level of interest and activity all over the place; and 4) The
obviously terrific people you meet and talk to-such as yourself!!!

Personally I love QRP, and am having more fun than I've had in years. Don't

forget to mention things like the Spartan Sprint where the entire rig's weight is an important of the multiplier, the FYBO contest upcoming, the incredible responses on QRP-L to almost any need or problem, the willingness of so many people to participate for the benefit of others, and any other personal anecdotes. I hope this helps organize your thoughts. It is good of you to volunteer to do this. My friend Jim, W4QO is talking to our local RC next month on the same subject. I'm certain you'll both do a GREAT job!!!

Season's Greetings!!!

At 07:10 AM 12/21/96 -0600, you wrote:

At 07:10 AM 12/21/96 -0600, Frank Emens wrote:
>In a rash moment I agreed to make a presentation to the local ham
>club on qrp. Does anyone have any inputs on the best way to approach
>the subject with the average club membership with a wide range of
>interest? I'd appreciate any suggestions on ways to capture
>everyone's attention.
>
>73,
>
>Things are more like they are now than they have ever been before
>Frank Emens femens@iquest.com
>
>
>
72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX
189 Pioneer Trail, Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA URL: Coming Soon

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: aa1rb@juno.com (Jim Cadorette)
Subject: [6839] Re: Dave Bensons address
Message-ID: <19961220.193530.4791.4.AA1RB@juno.com>

Does someone have Dave Bensons address handy?

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: aa1rb@juno.com (Jim Cadorette)
Subject: [6866] Re: Dave Bensons address
Message-ID: <19961221.081230.4735.3.AA1RB@juno.com>

Thanks to all who responded to my address request.
AA1RB
Jim

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: N4JS <n4js@amsat.org>
Subject: [6843] Re: NE QRP Club
Message-ID: <v03007800aee0ffcf94f2@[206.106.174.45]>

Thanks to ALL who responded. The check is in the mail!


```
 _  _  _ _      _  ___
| \| || | |  _ | |/ __|
| .` ||_  _|| || |\__ \
|_|\_|  |_|  \__/ |___/
```
John L. Sielke n4js@amsat.org
n4js@n4js.ampr.org QRP-L #884 NJ Grid:FM29
http://www.pobox.com/~jsielke

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "Robert E. Billingsley" <rebill@mixi.net>
Subject: [6876] Re: No power out on 17M Sierra
Message-ID: <32BC7597.7A96@mail.mixi.net>

Mike Boice wrote:
 >
 > Built the 17 meter Sierra band module, but am only getting about 28
mW out
 > (as measure with an RF probe). I had planned on trying QRPp
sometime, but
 > this is a little quick :-)....

> 73,
> mike KD0FX
> Richland WA

Mike,
I had the same problem with my Sierra. To correct it I had to change C65, the coupling capacitor between the two tuned circuits in the PMO filter, from 1 pf to 3 pf. After that I got about 1.5 watts out. The tuning of C64, C66, C33, and C36 is pretty touchy on the 17M and 15M band modules. I takes a little patience to get them tuned up.

I had a similar problem with the 15M module, i.e. low power output (300 mW max.). To correct it, I had to change L3 & L4 from 1.0 uH (18T) to 2.0 uH (26T). After I tuned it up, I got 1.3 to 1.5 watts out.

Other than those two little problems, all the other bands work great. I really like the rig, especially the KC2 frequency readout/keyer. Wayne, et.al. have really done an outstanding job with the design, packaging, parts, quality, and manual.

Hope this is helpful.

73,
Bob Billingsley, KC9UR
Fort Wayne, IN

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: DYARNES@aol.com
Subject: [6870] Re: QRP Websites
Message-ID: <961221100550_743497802@emout18.mail.aol.com>

I am having trouble with a couple of websites referred to in postings here on QRP-L.

The first one is www.locutuscodeware.com. I seem to get to the website, in that there is a screen showing the name, but nothing happens beyond that. The only option is something about music, but it doesn't seem to work.

The second is www.mtechnologies.com/mthome. I get a message that AOL cannot access this website because they are using an unsupported HTTP format, or words to that effect.

Any clues as to my problems?

72 de David W7AQK

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [6861] Re: Tuner settings
Message-ID: <Pine.SOL.3.94.961221070808.22905D-100000@utkux4.utcc.utk.edu>

On Fri, 20 Dec 1996, Bob Tellefsen-CNSE97 wrote:
> Somewhere I remember reading that a T tuner should be set up with the output
> capacitor at maximum C and do the preliminary tuning with the L and the input C.
> Only then vary the output C for the final match.
>
> It seems to work for me, using the small MFJ 900 series tuners I have.
> Intuitively it would seem you would want as large a C in line as possible to
> reduce insertion loss, consistent with resonance.
Bob,

The method will generally work in the process of achieving the most efficient match with a C-L-C Tee circuit. You want the max antenna-side C, and starting there tends to assure you that you will have it--assuming that you set L for the lowest SWR, then change the TX-side C to zero it. If no setting is possible, back-off the ant-side C in very small increments, resetting L and altering the TX-side C for 1:1. Assuming no setting is found at max C, return the TX-side C to its max each time you use a slightly lower value of ant-side C and reset L--that way, you do not force a higher than needed setting of L and a lower than desired value of ant-side C on the match. Slight touch-ups of ant-side C as you move across a band will not significantly hurt efficiency, as these adjustments are largely (but not absolutely) changes to compensate for reactance changes with frequency changes.

Hope this is useful.

-73-

LB, W4RNL

From owner-qrp-l@Lehigh.EDU Sat Dec 21 18:02:21 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [6860] Re: Tuners: PIs
Message-ID: <Pine.SOL.3.94.961221064223.22905B-100000@utkux4.utcc.utk.edu>

Cecil's note on parts availability reminds me that it is possible to build

a balanced network tuner. Design is no harder than multiplying and dividing by 2. The standard unbalanced network values give you the total series inductance (for a PI network, let's say) and the total shunt (parallel across the lines) capacitance. To convert to a balanced network, working against a center ground/earth, divide the inductance by 2 and place inductors of this value, one in each line (for a total series inductance equal to the initial design value. Multiply the capacitance by 2 and place one from each line to ground. Each C is in series with its counterpart and hence the total capacitance across the line is the new C divided by 2, which is the original value of the design.

Now find capacitors that are split stator or 2-gang jobs--or mechanically gang them. Mechanically gang the inductors--if variable, use shaft coupler; if tapped, use 2-gang switches.

The output will be balanced, and so will the input. Here is the place--the input--to install a good 1:1 balun, since this is the spot that will see resistive source and load. This system also permits chassis or case grounding, since the circuit is balanced on either side of ground.

With jumpers, you can concert the system to an unbalanced network of the type usually seen in the handbooks for coax.

Remember that virtually all the commercial tuners are compromises for cost of production and for features that ham consumers say they want, for example compactness. For field work in a tent or for the apartment dweller, etc., these units are fine, even if not the most efficient. But if you want maximum efficiency and are willing to devote a little room to it, you can roll your own and create a unit superior to the commercials. And you may only need to do it once in a life time if you clean the components periodically.

-73-

LB, W4RNL